

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P942046

Luminaire Tested: **GALN-SB5D-840-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38562 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

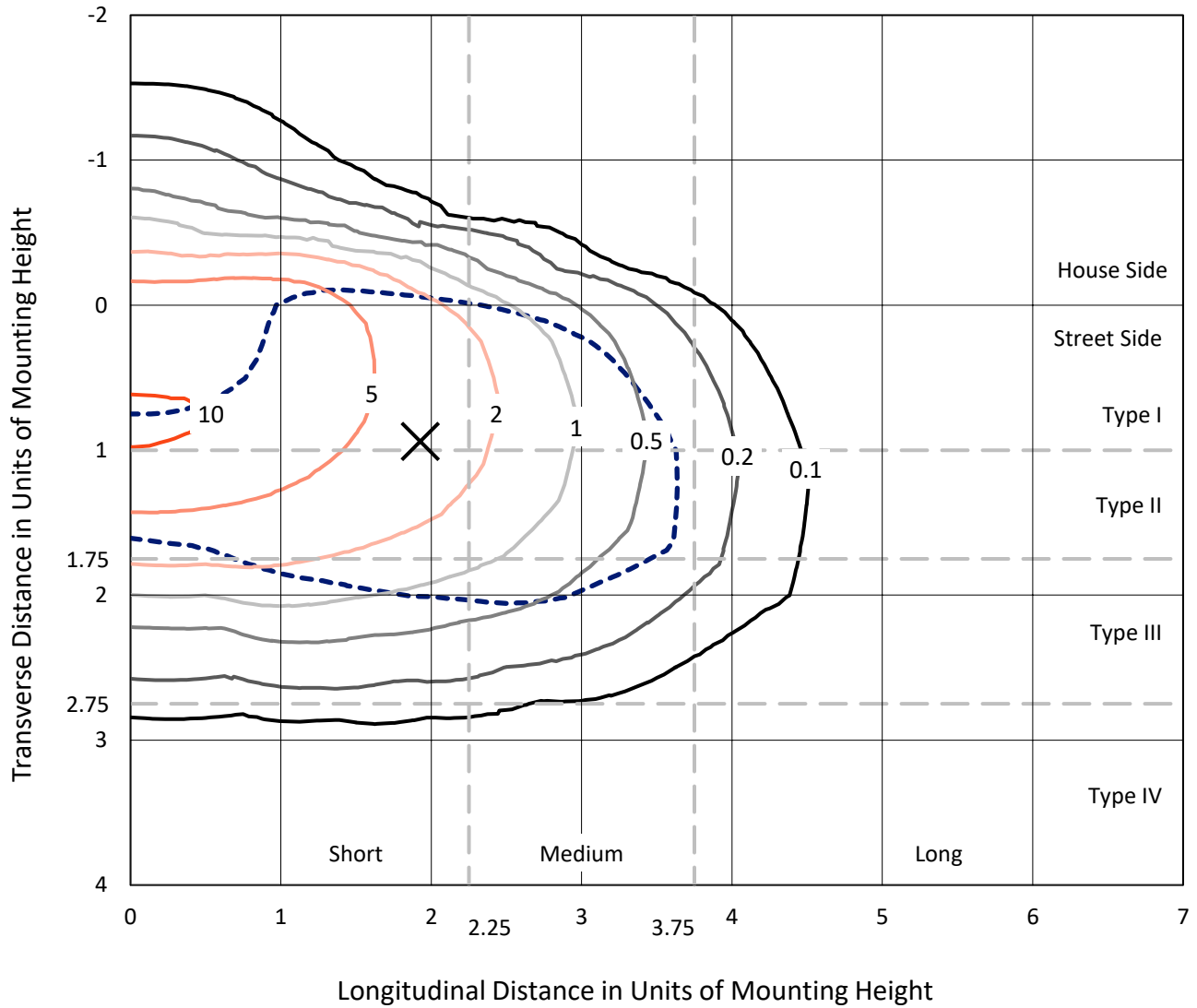
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

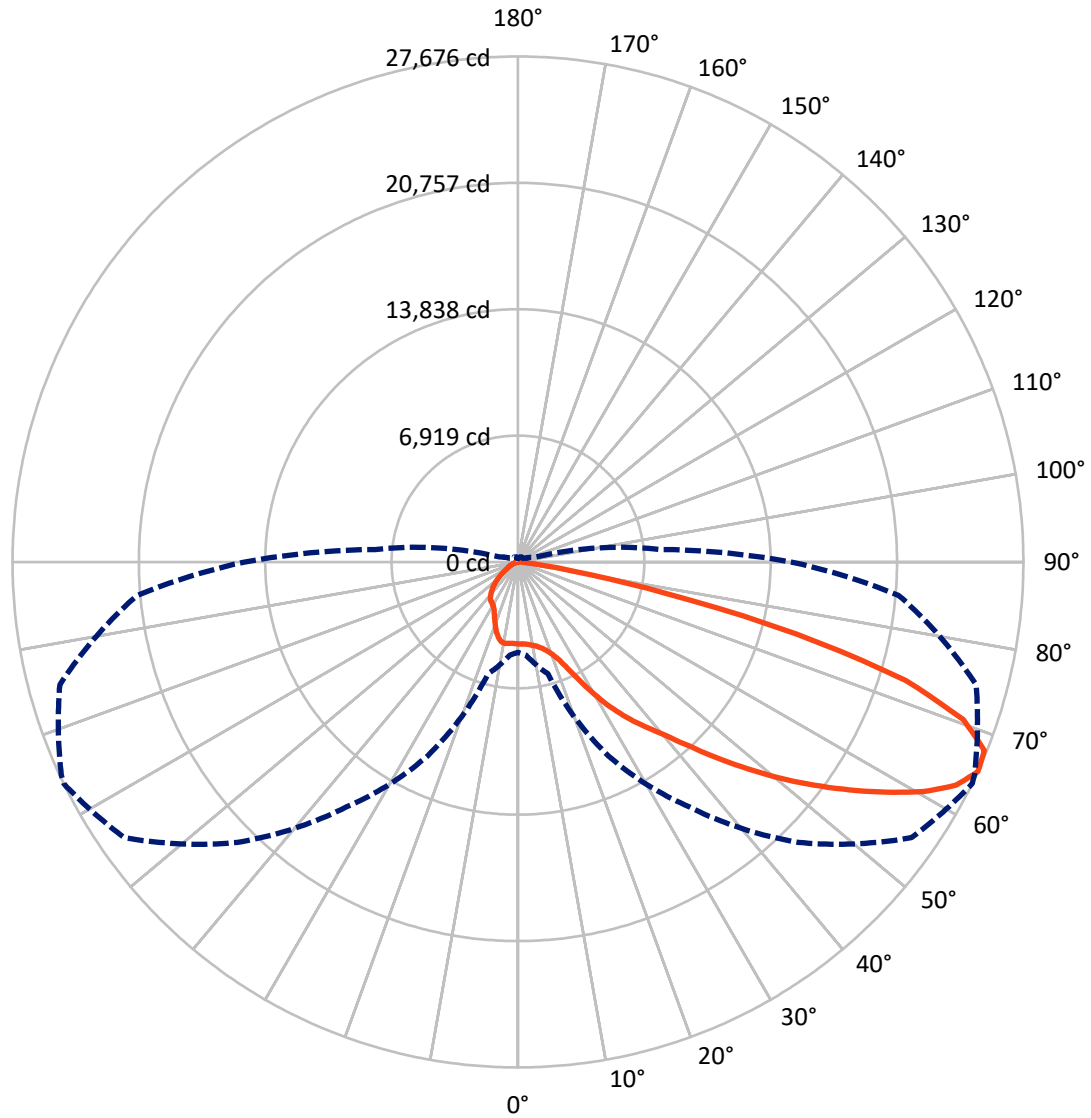
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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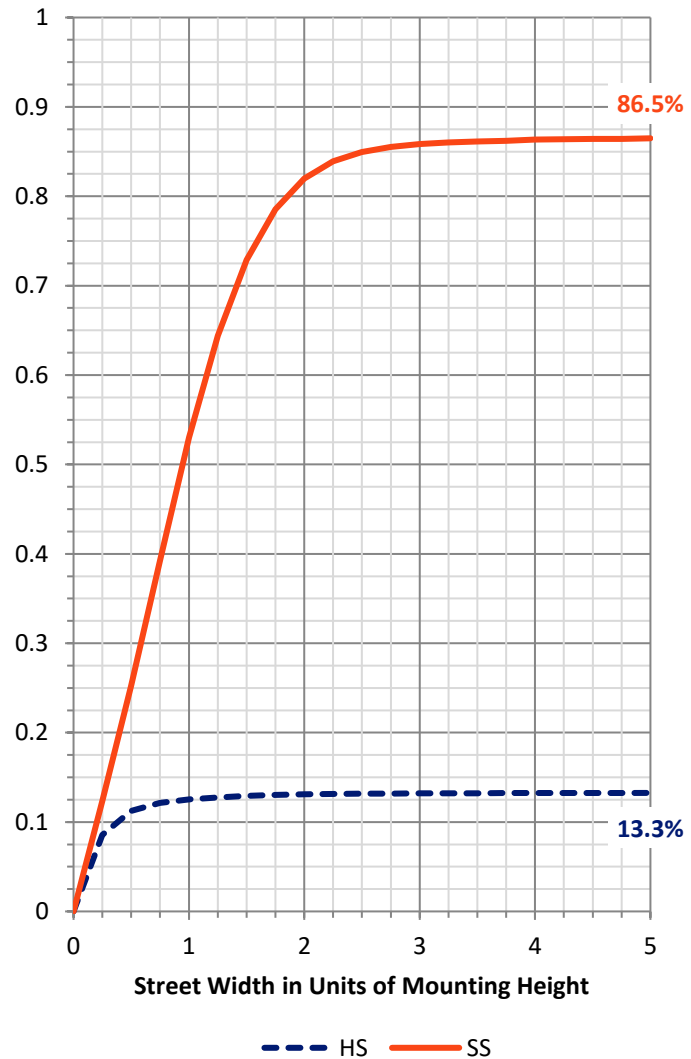
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5156.9	0.0	5156.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	33405.1	0.0	33405.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	38562.0	0.0	38562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	1.1
10°-20°	1122.3	2.9
20°-30°	2126.7	5.5
30°-40°	4303.5	11.2
40°-50°	7331.1	19.0
50°-60°	9969.8	25.9
60°-70°	9362.1	24.3
70°-80°	3750.9	9.7
80°-90°	181.7	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	38562.0	100.0
0°-180°	38562.0	100.0

Coefficient of Utilization



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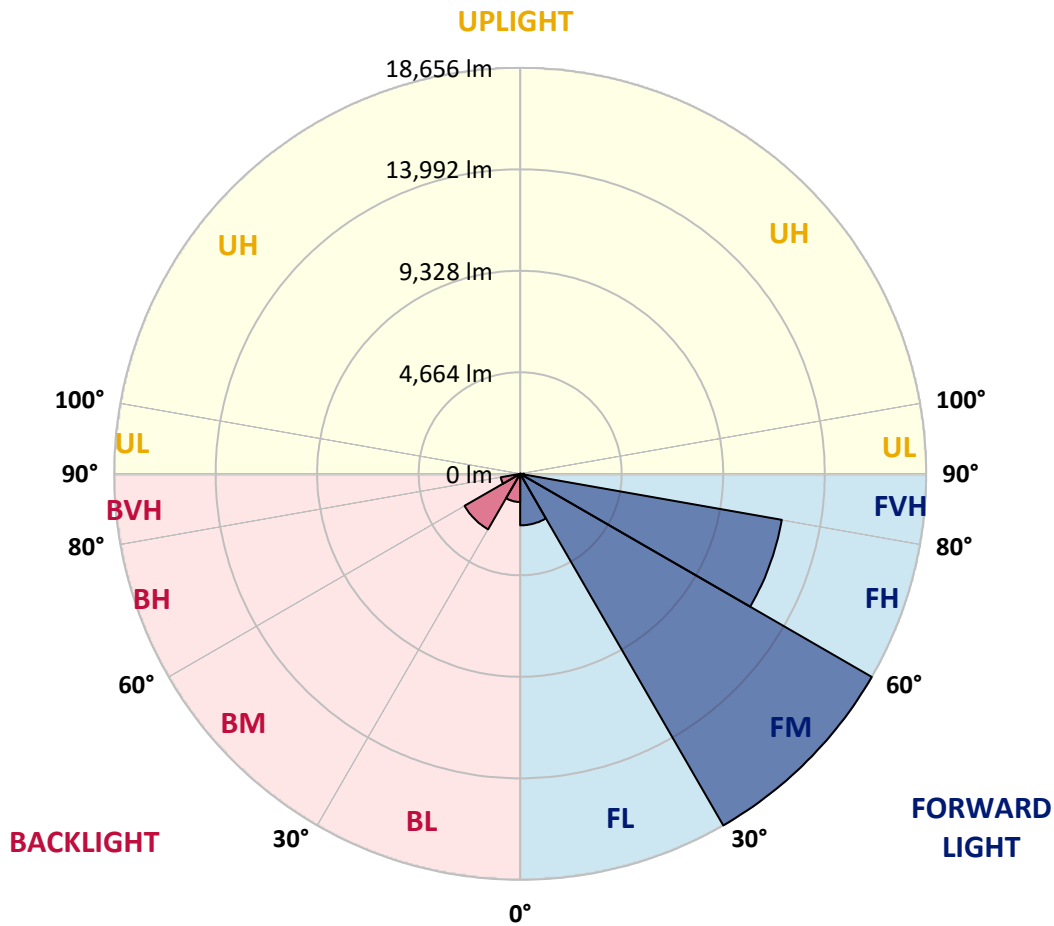
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.1	6.1			
FM (30°-60°)	18656.2	48.4			
FH (60°-80°)	12207.8	31.7			G5
FVH (80°-90°)	172.8	0.4			G2/225
BL (0°-30°)	1294.7	3.4	B3/2500		
BM (30°-60°)	2948.2	7.6	B3/5000		
BH (60°-80°)	905.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2
2.5°	4469.7	4500.7	4492.9	4485.2	4482.6	4487.7	4490.3	4487.7	4487.7	4487.7
5°	4384.3	4410.2	4410.2	4428.3	4454.1	4485.2	4508.4	4513.6	4518.8	4526.5
7.5°	4221.5	4242.2	4257.7	4317.1	4381.8	4464.5	4534.3	4570.5	4575.6	4604.1
10°	4110.3	4136.2	4162.0	4224.1	4317.1	4441.2	4560.1	4648.0	4660.9	4728.2
12.5°	4105.2	4131.0	4164.6	4231.8	4340.4	4472.2	4617.0	4743.7	4766.9	4865.2
15°	4159.4	4190.5	4221.5	4304.2	4420.5	4580.8	4735.9	4893.6	4916.9	5056.5
17.5°	4270.6	4312.0	4335.2	4417.9	4542.0	4720.4	4924.6	5105.6	5126.3	5289.1
20°	4490.3	4539.4	4547.2	4614.4	4735.9	4927.2	5170.2	5395.1	5421.0	5607.1
22.5°	4945.3	5015.1	4953.1	4986.7	5095.2	5286.5	5550.2	5834.6	5870.8	6082.8
25°	5746.7	5844.9	5684.7	5627.8	5674.3	5873.4	6204.3	6563.6	6604.9	6775.6
27.5°	7321.0	7194.4	6951.4	6713.5	6573.9	6687.7	7059.9	7504.6	7556.3	7721.7
30°	9050.5	8939.3	8611.0	8083.6	7752.7	7734.6	8078.5	8574.8	8634.3	8791.9
32.5°	10782.5	10676.5	10319.7	9670.9	9097.0	8812.6	9050.5	9601.1	9632.1	9732.9
35°	12486.1	12377.5	12020.7	11356.4	10650.6	10004.4	9957.8	10578.3	10588.6	10694.6
37.5°	14200.0	14109.5	13729.5	13078.1	12382.7	11490.8	11059.1	11503.7	11516.7	11620.1
40°	15422.7	15461.5	15200.4	14696.3	14099.2	13124.6	12294.8	12488.7	12411.1	12584.3
42.5°	16472.3	16549.9	16322.4	16069.0	15722.6	14864.4	13825.2	13791.5	13667.5	13760.5
45°	17379.7	17444.3	17240.1	17180.6	17172.9	16570.5	15497.7	15296.1	15122.9	15104.8
47.5°	17713.2	17837.2	17925.1	18124.2	18512.0	18258.6	17227.2	16914.4	16720.5	16578.3
50°	17839.8	17971.7	18271.5	18850.6	19768.3	19876.9	18948.8	18597.3	18359.4	18100.9
52.5°	17669.2	17904.5	18307.7	19282.3	20613.6	21174.6	20600.7	20293.1	20021.7	19600.3
55°	16663.6	16898.8	17723.5	19277.1	21035.0	22084.6	22162.1	22025.1	21720.1	21055.7
57.5°	14543.8	14892.8	16198.3	18620.5	21027.3	22867.9	23692.5	23790.7	23449.5	22498.2
60°	11607.1	12080.2	13672.6	17165.1	20378.4	23291.8	25034.2	25525.3	25163.4	23920.0
62.5°	8099.1	8647.2	10154.3	14885.0	18894.5	22986.8	26013.9	26921.3	26647.3	25191.9
65°	4940.1	5115.9	6330.9	11713.1	16371.5	21709.7	26316.4	27676.2	27585.7	25970.0
67.5°	3290.8	3438.2	3787.2	8031.9	12708.4	19158.2	25592.6	27544.3	27570.2	25843.3
70°	1982.8	2109.4	2336.9	4671.3	8236.2	15164.2	23351.3	25864.0	26013.9	24150.1
72.5°	816.9	902.2	1109.0	2117.2	4265.4	9624.4	18594.7	22206.1	22555.1	20306.0
75°	462.7	506.7	651.4	1062.5	1850.9	4485.2	11263.3	15764.0	16278.4	13995.8
77.5°	307.6	328.3	421.4	687.6	1041.8	1530.4	4813.5	8212.9	9195.2	7644.2
80°	206.8	224.9	289.5	460.1	677.3	656.6	1533.0	3042.7	3743.2	2626.5
82.5°	139.6	142.2	206.8	302.5	429.1	318.0	452.4	946.1	1189.1	760.0
85°	80.1	77.6	152.5	175.8	191.3	131.8	137.0	284.4	372.3	320.6
87.5°	10.3	15.5	59.5	46.5	25.9	28.4	28.4	49.1	72.4	77.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4485.2	0°	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2	4485.2
4490.3	2.5°	4490.3	4487.7	4480.0	4472.2	4454.1	4443.8	4449.0	4443.8	4441.2	4443.8
4523.9	5°	4523.9	4516.2	4495.5	4469.7	4433.5	4389.5	4361.1	4319.7	4280.9	4257.7
4614.4	7.5°	4614.4	4606.7	4578.2	4505.8	4389.5	4206.0	4037.9	3890.6	3779.4	3714.8
4759.2	10°	4759.2	4746.3	4702.3	4542.0	4237.0	3836.3	3502.8	3226.2	3045.3	2959.9
4929.8	12.5°	4929.8	4914.3	4836.7	4508.4	3947.5	3321.9	2861.7	2554.1	2386.1	2311.1
5126.3	15°	5131.4	5110.8	4958.2	4348.2	3526.1	2753.1	2331.8	2101.7	1993.1	1925.9
5377.0	17.5°	5382.2	5346.0	5048.7	4107.7	3068.5	2318.8	2006.0	1832.8	1737.2	1672.6
5705.3	20°	5707.9	5648.5	5121.1	3820.8	2647.1	2044.8	1786.3	1641.5	1569.2	1512.3
6170.7	22.5°	6162.9	6077.6	5209.0	3510.6	2349.9	1856.1	1623.4	1517.5	1458.0	1393.4
6819.5	25°	6726.4	6625.6	5317.6	3223.6	2145.6	1693.2	1504.5	1416.6	1346.8	1271.9
7670.0	27.5°	7514.9	7333.9	5446.8	2988.4	1969.9	1553.6	1396.0	1297.7	1217.6	1155.5
8634.3	30°	8393.8	8096.6	5560.6	2846.2	1809.6	1424.4	1253.8	1155.5	1080.6	1036.6
9500.3	32.5°	9226.2	8823.0	5635.5	2784.2	1664.8	1277.0	1098.7	992.7	935.8	922.9
10348.2	35°	10012.1	9479.6	5627.8	2724.7	1535.6	1129.7	946.1	837.6	793.6	801.4
11260.7	37.5°	10916.9	10180.2	5573.5	2631.6	1429.6	995.3	814.3	718.7	679.9	682.5
12369.7	40°	11969.0	10989.3	5539.9	2455.9	1313.2	871.2	705.7	628.2	599.7	589.4
13538.2	42.5°	13091.0	11772.6	5545.1	2256.8	1168.5	760.0	630.8	566.1	540.3	532.5
14838.5	45°	14218.1	12519.7	5552.8	2050.0	1015.9	674.7	576.5	522.2	506.7	496.3
16156.9	47.5°	15278.0	13155.6	5408.0	1827.7	866.0	610.1	532.5	496.3	483.4	470.5
17480.5	50°	16265.5	13579.6	5059.1	1569.2	747.1	558.4	498.9	473.1	460.1	447.2
18680.0	52.5°	17033.3	13646.8	4482.6	1302.9	664.4	519.6	478.2	455.0	439.5	426.5
19649.4	55°	17374.5	13225.4	3663.1	1054.7	599.7	486.0	457.6	434.3	416.2	403.3
20412.0	57.5°	17286.6	12338.7	2856.5	847.9	537.7	452.4	431.7	416.2	395.5	374.8
21029.8	60°	16854.9	11152.2	2153.4	705.7	480.8	416.2	403.3	390.4	361.9	330.9
21267.7	62.5°	16107.8	9660.5	1535.6	584.2	418.8	374.8	369.7	359.3	318.0	261.1
20916.1	65°	14965.2	7848.4	1034.0	486.0	359.3	328.3	330.9	312.8	258.5	193.9
19628.7	67.5°	13295.2	5738.9	661.8	398.1	299.9	274.0	276.6	266.3	219.7	165.4
17188.4	70°	11167.7	3800.1	431.7	302.5	240.4	212.0	227.5	230.1	186.1	134.4
13191.8	72.5°	8187.0	2243.9	302.5	224.9	175.8	147.4	186.1	191.3	149.9	100.8
7936.3	75°	4666.1	1065.1	227.5	162.9	108.6	103.4	144.8	144.8	103.4	67.2
3435.6	77.5°	1959.5	444.6	160.3	106.0	62.0	59.5	98.2	90.5	51.7	31.0
837.6	80°	566.1	199.1	85.3	51.7	25.9	23.3	38.8	28.4	12.9	5.2
318.0	82.5°	222.3	87.9	33.6	20.7	10.3	10.3	5.2	0.0	0.0	0.0
181.0	85°	131.8	36.2	15.5	7.8	2.6	0.0	0.0	0.0	0.0	0.0
38.8	87.5°	33.6	7.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
4485.2
4454.1
4262.8
3717.4
2952.2
2303.3
1928.5
1667.4
1501.9
1383.0
1264.1
1142.6
1028.9
930.6
801.4
692.8
586.8
529.9
496.3
470.5
447.2
424.0
400.7
372.3
325.7
255.9
188.7
157.7
129.3
95.6
62.0
31.0
5.2
0.0
0.0
0.0
0.0

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